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Solve each equation with the quadratic formula.

1)
$$n^2 + 5n - 14 = 0$$

2)
$$6k^2 + 12k - 90 = 0$$

3)
$$8p^2 = 1 - 9p$$

4)
$$4x^2 - 54 = 6x$$

Divide.

5)
$$(3m^3 + 2m^2 + 30m) \div 6$$

6)
$$(18n^4 + 3n^3 + 3n^2) \div 9n^2$$

Factor the common factor out of each expression.

7)
$$-40 + 24x - 28x^2$$

8)
$$-12r^6 - 15r + 9$$

Answers to Homework 33.3

1)
$$\{2, -7\}$$

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1)
$$\{2, -7\}$$
2) $\{3, -5\}$
3) $\left\{\frac{-9 + \sqrt{113}}{16}, \frac{-9 - \sqrt{113}}{16}\right\}$
4) $\left\{4\frac{1}{2}, -3\right\}$
5) $\frac{m^3}{2} + \frac{m^2}{3} + 5m$
6) $2n^2 + \frac{n}{3} + \frac{1}{3}$
7) $4(-10 + 6x - 7x^2)$
8) $3(-4r^6 - 5r + 3)$

4)
$$\left\{4\frac{1}{2}, -3\right\}$$

5)
$$\frac{m^3}{2} + \frac{m^2}{3} + 5m$$

6)
$$2n^2 + \frac{n}{3} + \frac{1}{3}$$

7)
$$4(-10+6x-7x^2)$$